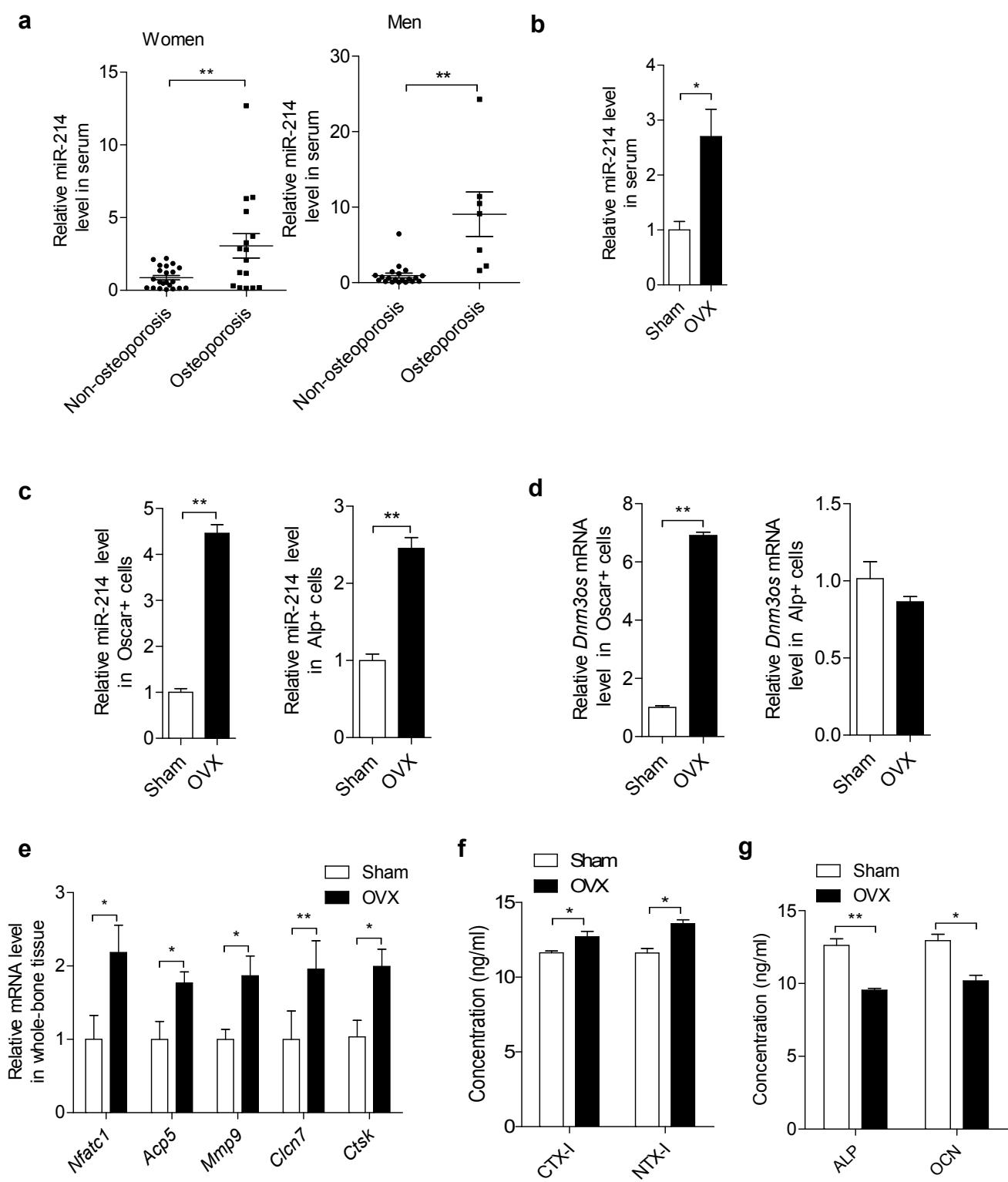


Supplementary Figure 7



Supplementary Figure 7. Changes in miR-214 levels in osteoporotic patients, non-osteoporotic patients, OVX mice, and sham mice.

(a) QRT-PCR analysis of circulating miR-214 in serum (normalized to cel-miR-39) from osteoporosis vs non-osteoporosis patients. Non-osteoporosis women, n=22, non-osteoporosis men, n=16, osteoporosis women, n=20, osteoporosis men, n=7. **(b)** QRT-PCR analysis of miR-214 levels in serum (normalized to cel-miR-39) of sham and OVX mice. Sham, n=6, OVX, n=6. **(c)** miR-214 levels in Oscar⁺ cells and Alp⁺ cells from sham and OVX mice. **(d)** The change of *Dnm3os* mRNA level in Oscar⁺ cells and Alp⁺ cells from sham and OVX mice. *Dnm3os* mRNA level was analyzed by qRT-PCR and normalized to *Gapdh*. **(e)** QRT-PCR analysis the expression of *Nfatc1*, *Acp5*, *Mmp9*, *Clcn7* and *Ctsk* in whole-bone tissues of OVX and sham mice. Sham, n=6, OVX, n=6. **(f, g)** Serum CTX-I, NTX-I, ALP, and OCN levels in OVX and sham mice. n=3. The PCR products were normalized to *Gapdh*. The data represent the mean ± SEM. **P*<0.05, ***P*<0.01.